# DESIGN

# STUDIES

# SUBJECT INDEX

### A

A plain man's guide to participation 27
A timeline theory of planning and design 299
Appraisal in design 160
Approaches to design 141
Appropriation of space in a design
office 273
Architectural objects and their design
as a subject for semiotic studies 207
Architecture of the computable 217
Artificial intelligence and its impact on
computer-aided design 166

### B

### **Books and Publications**

Alexander, C A pattern language 252 Baker, M J Industrial innovation: technology, policy, diffusion 313 Barron, I and Curnow, R The future with microelectronics 125 Bayley, S In good shape 178 Besant, C B Computer-aided design and manufacture 383 Bicknell, J and McQuiston, L (eds) Design for need: the social contribution of design 127 Blakstad, M The risk business 316 Corfield, K G Product design 59 Coulson, A J A bibliography of design in Britain 1851-1970 128 Creativity network 61 Eiloart, T and Dale, R (eds) Hobsons engineering casebook 383 Elster, J Logic and society 314 Gordon, J E Structures: or why things don't fall down 61 Hawthorne, E P The management of technology 313 Laithwaite, E The rise and fall of tracked hovercraft CEI case study 126 Leitch, G Trunk road proposals - a comprehensive framework for appraisal 383 Mayall, W H Principles in design 177 McCall, MW, Morrison, AM and Hannan, RL Studies of managerial work: results and methods 382 McCall, M W and Segrist, C A In pursuit of the manager's job: building on Mintzberg 382 More problems in applied engineering 383 Munford, E and Henshall, D A participative approach to computer systems design 253 Papanek, V and Hennessey, J How things don't work 127 Positioning study 381 Proceedings of Metodologia Projektowania i Badania Pokrewne nad Projektowanie 314 Steadman, P The evolution of designs 380 Thompson, M Rubbish theory: creation and destruction of value 312 Tod, I and Wheeler, M Utopia 315 Uhlmann, L and Ray, G F The innovation process in the energy industries 313 Waddington, C H The man-made future 60 Waddington, C H Tools for thoughts 60

Watkins, D Morality and architecture 128
Yourdon, E Managing the structured
techniques 316
Ziman, J Reliable knowledge 315

British design awards 379

### r

Clinical history of successful innovation: SF6 circuit-breakers 285 Clinical-experimental analysis of design problem solving 84 Computer-aided design by optimization in architecture 227 Computer-based aids for public participation in planning 341

# **Conference Reports**

Architectural psychology 255
Cybernetics and systems research 378
Design advisory service exhibition 311
Design and industry 255
Design business 62
Design '79 188
Environmental psychology 191
Expanding the environment/behaviour domain 309
Frontiers of design 187
Information for designers 308
Innovetion in industry 124
Material science in relation to design 310
Product strategy for profit and growth 308
Tomorrow's engineering designers 190

Cost-effectiveness and the choice of 'best environmental options' 353

# D

Data frame model for the engineering design process 231 Deriving a context 133 Design and general education 202 Design as a Discipline Whatever became of design methodology? The three Rs 17 A timeline theory of planning and design 299 Design methods in UK schools of architecture 15 Design of effective machinery guards 12 Designer in the 1980's - the deskiller deskilled, The 197 Designing designing 31 Designing for creativity: a state of the art review 262

# E

Electronic systems design emphasizing interconnections instead of components 245 Environmental design and management as evolutionary experimentation 365

### G

General model and choice criterion in engineering design 45

## H

History and science of the artificial 49

### .

... in the dimension of Time 172 Information and databases in design 146

### L

Letters to the editor 130, 196 Limitation in the decision strategies of design students 358 Limits to prediction in science and design science 153

### N

New materials adoption study: some contributions to design knowledge 107

### 0

On the place of design in engineering 113 Opus one, number two 373

### P

Participant observation of a major design decision in industry 21
Perspectives on in-company technological innovation 349
Plain man's guide to participation 27
Praxiological-systemic approach to design studies 101
Preparing for design studies: ways of watching 77
Primary generator and the design process, The 36
Psychological study of design 5

# R

Rationality and meaning in design 69 Role of industrial design in technological innovation 329

# S

Specification of system behaviour 280 Speculations on the future practice of architecture 118

# T

The designer in the 1980s — the deskiller deskilled 197
The primary generator and the design process 36
Timeline theory of planning and design 299

# U

Utopian design policy of the Shakers, The 93

# V

Validation of a design methodology 325 Value in design: a dialogue 291

# W

Whatever became of design methodology? The three Rs 17

### **Author Index**

.

Abel, C Rationality and meaning in design 69
Alexander, C Value in design: value 295
Archer, B Whatever became of design
methodology? The three Rs 17
Atkins, M see Cowe, J F

Batty, M Limits to prediction in science and

design science 153

Berger, S R Artificial intelligence and its

impact on computer-aided design 166 Bessant, J R Preparing for design studies: ways of watching 77

Bessent, J R and McMahon, B J Participant observation of a major design decision in industry 21

Booth, R T The design of effective machinery guards 12

Broadbent, G Architectural objects and their design as a subject for semiotic studies 207

c

Carroll, J M, Thomas, J C and Malhotra, A Clinical-experimental analysis of design problem solving 84 Carroll, J M see Thomas, J C Commander, W see Gregory, S A Cooley, M J E The designer in the 1980's — the deskiller deskilled 197 Cooper, I, Harris, R, Tranter, R and Lipman, A Appropriation of space in a design office 273 Cross, A Design and general education 202

Cross, A Design and general education 20.
Cross, N The Utopian design policy of the
Shakers 93

Darke, J The primary generator and the design process 36

Eastman, C M Information and databases in design 146

F

Fowles, R A Design methods in UK schools of architecture 15

G

Gasparski, W W Praxiological-systemic approach to design studies 101
Gero, J S Computer-aided design by optimization in architecture 227
Gill, R Approaches to design 141
Glanville, R The architecture of the computable 217
Gregory, S A Deriving a context 133
Gregory, S A And Commander, M W New materials adoption study: some contributions to design knowledge 107

H

Harris, R see Cooper, I

.1

J
Johnson, J A plain man's guide to
participation 27
Jones, J C Designing designing 31
Jones, J C . . . in the dimensions of
Time 172
Jones, J C Opus one, number two 373

Leakey, D M The specification of system behaviour 280 Lewin, D On the place of design in engineering 113 Lewis, D see Lowe, J F Lipman, A see Cooper, I Littler, D Perspectives on in-company technological innovation 349 Lowe, J F, Lewis, D and Atkins, M Costeffectiveness and the choice of 'best environmental options' 353

M Malhotra, A see Carroll, J M Maver, T W Appraisal in design 160 McMahon, B J see Bessant, J R

Moody, S The role of industrial design in technological innovation 329

Mueller, B Case history of successful innovation: SF6 circuit breakers 285

N Nadler, G A timeline theory of planning and design 299

P Preiss, K Data frame model for the engineering design process 231 Protzen, J P Value in design: The poverty of the pattern language 291

R
Rickaby, P Speculations on the future practice of architecture 118
Rickards, T Designing for creativity sa state of the art review 262
Rzevski, G, Woolman, D and Trafford, D B
Validation of a design methodology 325

S Simmonds, R Limitation in the decision strategies of design students 358 Simons, T Computer-based aids for public participation in planning 341 Steadman, P The history and science of the artificial 49 Studer, R G Environmental design and management as evolutionary experimentation 365

T
Tarnowski, W General model and choice criterion in engineering design 45
Thomas, J C and Carroll, J M The psychological study of design 5
Thomas, J C see Carroll, J M
Trafford, D B see Rzevski, G
Tranter, R see Cooper, I

W Wilson, D K Electronic systems design emphasizing interconnections instead of components 245

Woolman, D see Rzevski, G

